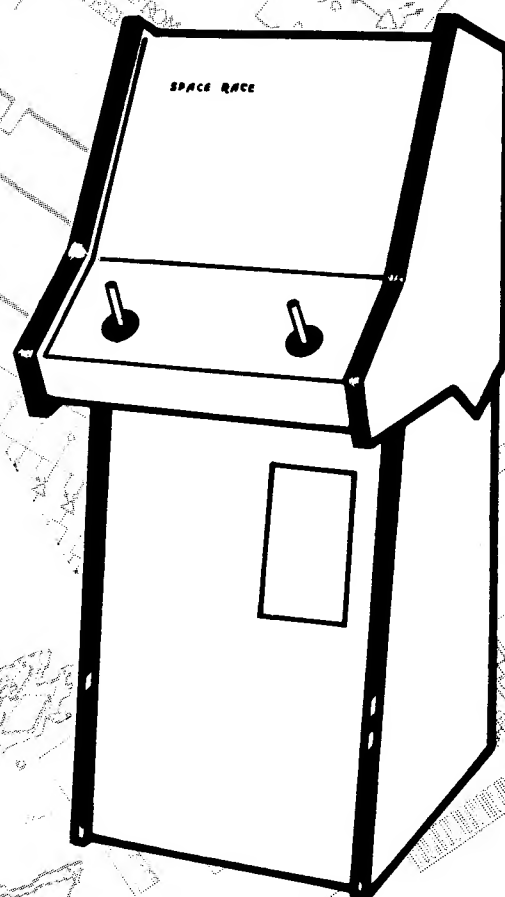


# SPACE RACE

## SERVICE MANUAL



1. LIGHTS/KEYS
2. JOYSTICK/KEYBOARD
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100. JOYSTICK/KEYBOARD

## **WARRANTY**

Seller warrants that its printed circuit boards and parts thereon are free from defects in material and workmanship under normal use and service for a period of ninety (90) days from date of shipment. Seller warrants that its television monitors are free from defects in material and workmanship under normal use and service for a period of thirty (30) days from date of shipment. None of the Seller's other products or parts thereof are warranted.

If the products described in this manual fail to conform to this warranty, Sellers' sole liability shall be, at its option, to repair, replace, or credit Buyer's account for such products which are returned to Seller during said warranty period, provided:

(a) Seller is promptly notified in writing upon discovery by Buyer that said products are defective;

(b) Such products are returned prepaid to Sellers' plant; and

(c) Seller's examination of said products discloses to Seller's satisfaction that such alleged defects existed and were not caused by accident, misuse, neglect, alteration, improper repair, installation or improper testing.

In no event shall Seller be liable for loss of profits, loss of use, incidental or consequential damages.

EXCEPT FOR ANY EXPRESS WARRANTY SET FORTH IN A WRITTEN CONTRACT BETWEEN SELLER AND BUYER WHICH CONTRACT SUPERSEDES THE TERMS OF THIS ORDER, THIS WARRANTY IS EXPRESSED IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND OF ALL OTHER OBLIGATIONS OR LIABILITIES ON THE SELLER'S PART, AND IT NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR THE SELLER ANY OTHER LIABILITIES IN CONNECTION WITH THE SALE OF PRODUCTS UNDER THIS ORDER.

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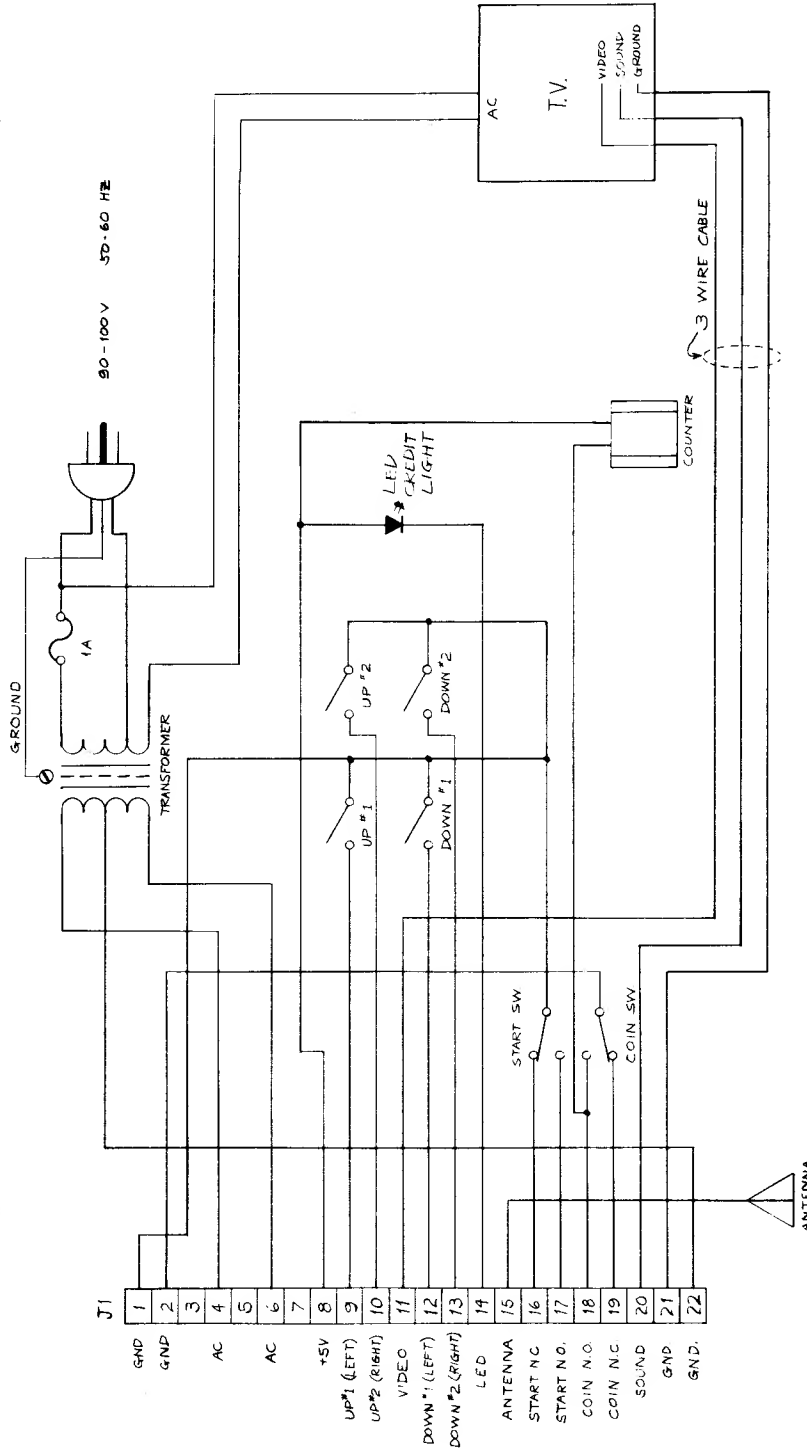
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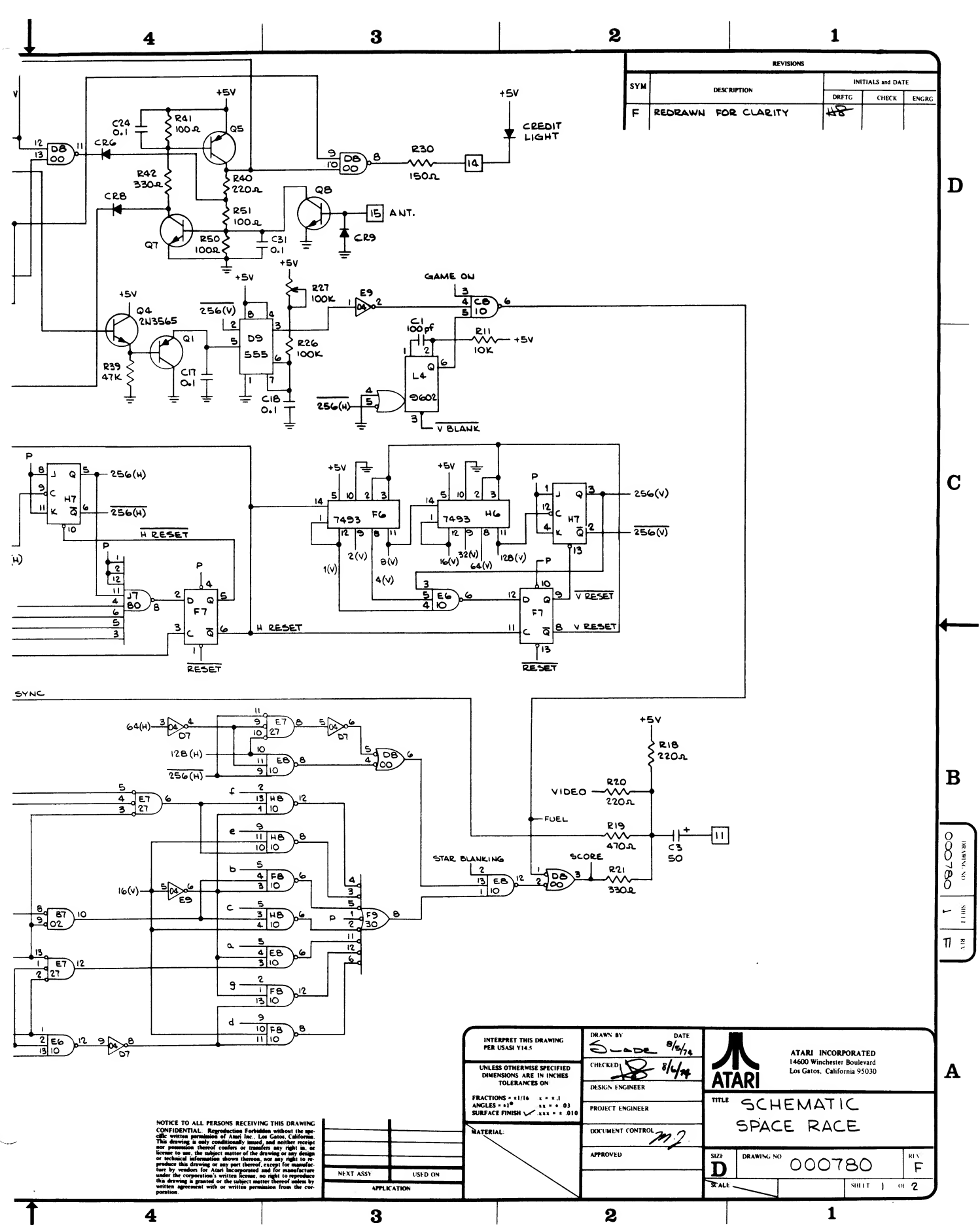
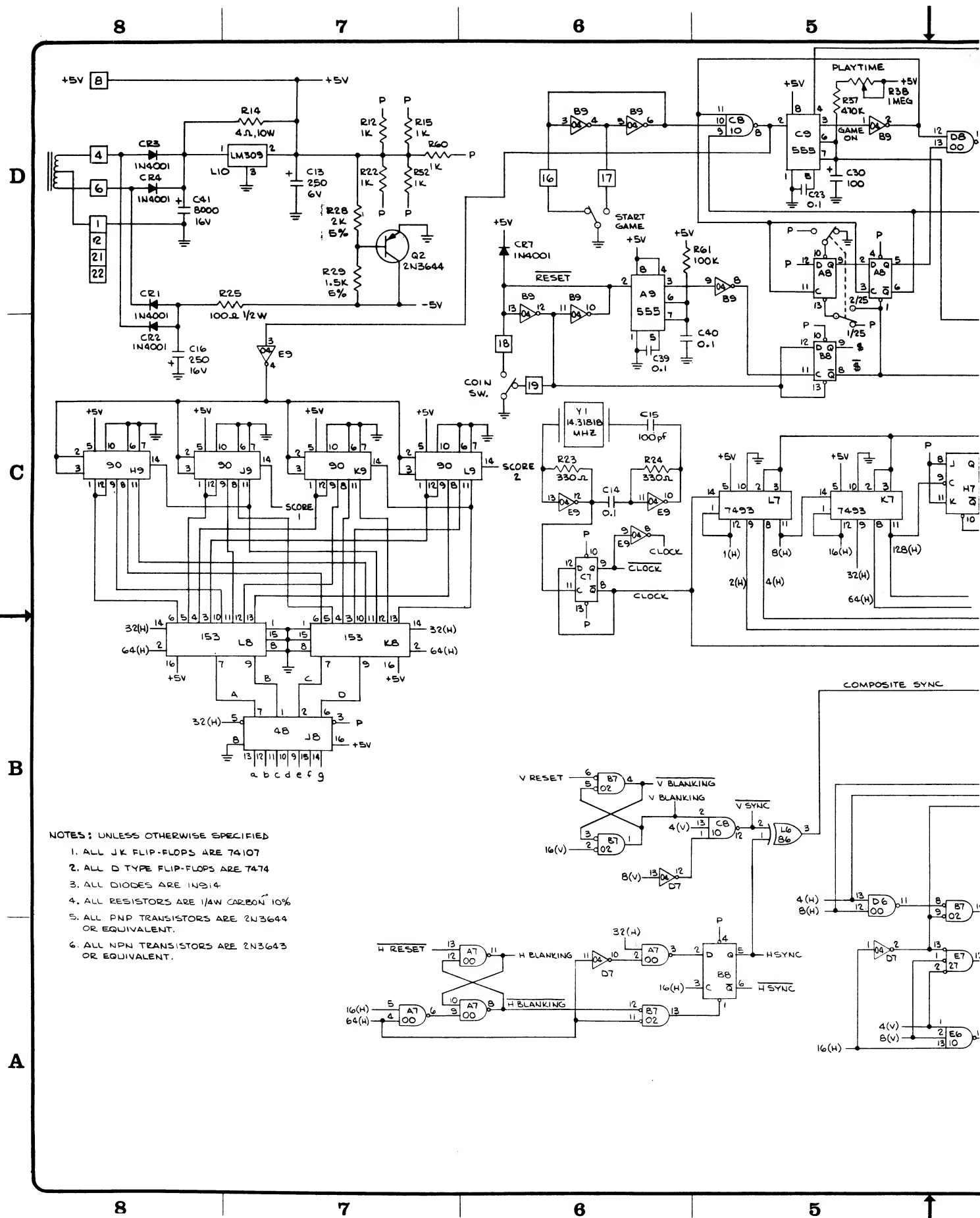
| REVISIONS |                       |                   |      |
|-----------|-----------------------|-------------------|------|
| SYM       | DESCRIPTION           | INITIALS and DATE |      |
| A         | REL. TO PROD. REDRAWN | 5/16/74           | ENGR |
| B         | REV. PER ECN 517      | 6/24/74           | COMP |



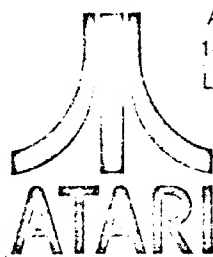
1. ALL SWITCHES SHOWN IN THEIR USUAL POSITIONS

NOTES:

|   |  |                                 |  |                 |                       |                 |
|---|--|---------------------------------|--|-----------------|-----------------------|-----------------|
| ATARI INCORPORATED<br>14600 Winchester Boulevard<br>Los Gatos, California 95030   |  | TITLE<br>WIZING HARNESS<br>S.A. |  | SIZE<br>C       | DRAWING NO.<br>000771 | REV.<br>B       |
| INTERPRET THIS DRAWING<br>PER USAI Y14.5  |  | DATE                            |  | SCALE<br>NONE   |                       | SHEET<br>1 OF 1 |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ON   |  | CHECKED                         |  | DESIGN ENGINEER |                       | DOCUMENT CONT.  |
| FRACTIONS - 1/16 1/8 1/4 1/2 3/4 1 1 1/2 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 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1814 1815 1816 1817 1818 1819 1820 1821 1822 1823 1824 1825 1826 1827 1828 1829 1830 1831 1832 1833 1834 1835 1836 1837 1838 1839 1840 1841 1842 1843 1844 1845 1846 1847 1848 1849 1850 1851 1852 1853 1854 1855 1856 1857 1858 1859 1860 1861 1862 1863 1864 1865 1866 1867 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 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2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 24 |  |                                 |  |                 |                       |                 |







ATARI INC  
14600 WINCHESTER BOULEVARD,  
LOS GATOS, CALIFORNIA 95030

# PARTS LIST SPECIFICATIONS

DRAWING NO.

A000803

DATE

REV

F

TITLE

SPACE RACE  
PRINTED CIRCUIT BOARD ASSEMBLY  
VP 121

DRAWN

DATE

ENGINEER

DATE

## ITEM | PART NO. | QTY | DESCRIPTION

|    |       |    |   |
|----|-------|----|---|
| 1  | 72000 | 9  | 7400 Integrated Circuit                   |
| 2  | 72001 | 4  | 7402 " "                                  |
| 3  | 72002 | 5  | 7404 " "                                  |
| 4  | 72003 | 7  | 7410 " "                                  |
| 5  | 72004 | 1  | 7420 " "                                  |
| 6  | 72006 | 3  | 7427 " "                                  |
| 7  | 72007 | 2  | 7430 " "                                  |
| 8  | 72008 | 1  | 7448 " "                                  |
| 9  | 72010 | 8  | 7474 " "                                  |
| 10 | 72012 | 1  | 7486 " "                                  |
| 11 | 72013 | 4  | 7490 " "                                  |
| 12 | 72014 | 6  | 7493 " "                                  |
| 13 | 72015 | 3  | 74107 " "                                 |
| 14 | 72016 | 2  | 74153 " "                                 |
| 15 | 72023 | 1  | 9311/74154 " "                            |
| 16 | 72024 | 1  | 9312/8230 " "                             |
| 17 | 72017 | 10 | 9316 " "                                  |
| 18 | 72025 | 1  | 9322/74157 " "                            |
| 19 | 72026 | 1  | 9602 " "                                  |
| 20 | 72018 | 6  | 555 " "                                   |
| 21 | 72021 | 3  | 566 " "                                   |
| 22 | 30100 | 4  | 100 PF Capacitor, Mica                    |
| 23 | 34102 | 3  | .001 MFD Ceramic Bypass Capacitor         |
| 24 | 34101 | 17 | .1 MFD Ceramic Bypass Capacitor           |
| 25 | 32101 | 9  | .1 MFD Capacitor Mylar, + 10%, 6V.        |
| 26 | 35502 | 6  | 5MFD Capacitor, Electrolytic 10V          |
| 27 | 39100 | 1  | 100 MFD Capacitor, Tantalum, 10V 20%      |
| 28 | 35254 | 1  | 250 MFD Capacitor Electrolytic, 6V        |
| 29 | 37101 | 1  | 250 MFD Capacitor Electrolytic, 16V       |
| 30 | 35473 | 2  | 47 MFD Capacitor Electrolytic 6V          |
| 31 | 37100 | 1  | 8000 MFD Capacitor Electrolytic 16V       |
| 32 | 10101 | 3  | 100 ohm, + 10%, 1/4 Watt, Carbon Resistor |
| 33 | 10151 | 1  | 150 ohm, " " " "                          |
| 34 | 10221 | 3  | 220 ohm " " " "                           |
| 35 | 10331 | 4  | 330 ohm " " " "                           |

## PARTS LIST SPECIFICATIONS

DRAWING NO.

DATE

REV

A000803

F

## ITEM PART NO. QTY DESCRIPTION

Space Race-PC Board Ass'y

|    |       |     |  |
|----|-------|-----|--|
| 36 | 10471 | 1   | 470 ohm, + 10%, 1/4 Watt, Carbon Resistor  |
| 37 | 10102 | 13  | 1K ohm " " " "                             |
| 38 | 10222 | 11  | 2.2K ohm " " " "                           |
| 39 | 10472 | 1   | 4.7K ohm " " " "                           |
| 40 | 10682 | 3   | 6.8K ohm " " " "                           |
| 41 | 10103 | 6   | 10K ohm " " " "                            |
| 42 | 10473 | 1   | 47K ohm " " " "                            |
| 43 | 10104 | 2   | 100K ohm " " " "                           |
| 44 | 10334 | 2   | 330K ohm " " " "                           |
| 45 | 10474 | 5   | 470K ohm " " " "                           |
| 46 | 12101 | 1   | 100 ohm, + 10%, 1/2 Watt, " "              |
| 47 | 11152 | 1   | 1.5K ohm + 5%, 1/4 Watt, " "               |
| 48 | 11202 | 1   | 2.0K ohm " " " "                           |
| 49 | 19100 | 1   | 4 ohm, + 20%, 10 Watt Resistor, Wire Wound |
| 50 | 22104 | 1   | 100K, Trim Pot, PC Mount                   |
| 51 | 22105 | 1   | 1 Meg., Trim Pot, PC Mount                 |
| 52 | 71000 | 30  | 1N914 Diode                                |
| 53 | 71001 | 5   | 1N4001 Diode                               |
| 54 | 70000 | 2   | 2N3643 Transistor                          |
| 55 | 70001 | 6   | 2N3644 Transistor                          |
| 56 | 70002 | 1   | 2N3656 Transistor                          |
| 57 | 72019 | 1   | LM309K Voltage Regulator                   |
| 58 | 83014 | 1   | Heatsink, Wakefield 680-1.25A              |
| 59 | 84001 | a/r | Heatsink Compound (#340 Dow)               |
| 60 | 60000 | 1   | Switch, DPDT Slide, PC Mount               |
| 61 | 81001 | 1   | Crystal, 14.31818 MHZ (HC-25 Case)         |
| 62 | 75100 | 2   | Screw, 6-32 x 5/8 Pan Hd.                  |
| 63 | 75101 | 4   | Washer, 6-32 Internal Star Lock            |
| 64 | 75102 | 2   | Washer, 6-32 Flat                          |
| 65 | 75103 | 2   | Hex Nut, 6-32                              |
| 66 | 90101 | 1   | P. C. Board, Space Race                    |



SPACE RACE

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P/N 90101

COMP VIEW

\* USE CR5 OR R26, R29, R32

Stuffing for SR  
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